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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/820,546	546 03/29/2001		Frederik Albert Buijtenhuijs	570-13 CON (AFP 2318)	4200	
75	590	04/08/2002				
Paul J. Farrell, Esq.				EXAMINER		
333 Earle Oving	Dilworth & Barrese, LLP 333 Earle Ovington Blvd. CINTINS, IVARS C					
Uniondale, NY	le, NY 11553 ART UNIT PAPER NUMBE		PAPER NUMBER			
				1724		
				DATE MAILED: 04/08/2002	9	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

THE

Application No. 09/820,546 Applicant(s)

Buijtenhuijs et al.

Examiner

Ivars Cintins

1724



The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period f	or Reply		_	MONTH WON FROM		
A SHO	ORTENED STATUTORY PERIOD FOR REPLY IS SET THE PARTY OF THIS COMMUNICATION.					
aft - If the	sions of time may be available under the provisions of 37 CFF er SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days,	inn.				
be - If NO	considered timely. period for reply is specified above, the maximum statutory period.	riod will apply a	nd will e	expire SIX (6) MONTHS from the mailing date of this		
- Anv r	mmunication. e to reply within the set or extended period for reply will, by seply received by the Office later than three months after the refreed patent term adjustment. See 37 CFR 1.704(b).	mailing date of th	e application	nunication, even if timely filed, may reduce any		
Status						
1) 🗶	Responsive to communication(s) filed on <u>Jan 14, 20</u>			·		
2a) 💢	This action is FINAL . 2b) ☐ This action					
3) 🗆	Since this application is in condition for allowance exclosed in accordance with the practice under Ex part	ccept for form te Quayle, 193	al matt 35 C.D	ters, prosecution as to the merits is . 11; 453 O.G. 213.		
	tion of Claims					
4) 💢	Claim(s) <u>1-13</u>			is/are pending in the application.		
	a) Of the above, claim(s)					
5) 🗌	Claim(s)			is/are allowed.		
6) 💢	Claim(s) <u>1-13</u>			is/are rejected.		
7) 🗆	Claim(s)					
8) 🗆		are	subjec	et to restriction and/or election requirement.		
	ation Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	objected to by	the E	xaminer.		
11)	- in all approved by disapproved					
12)	The oath or declaration is objected to by the Exami					
	under 35 U.S.C. § 119					
13)	Acknowledgement is made of a claim for foreign pr	iority under 35	5 U.S.0	C. § 119(a)-(d).		
a)[☐ All b)☐ Some* c)☐ None of:					
	1. \square Certified copies of the priority documents hav	e been receive	ed.			
	2. \square Certified copies of the priority documents hav					
	3. Copies of the certified copies of the priority de application from the International Bure	au (PC) Ruie	1 /.Z(a)).		
*5	See the attached detailed Office action for a list of the					
14)□	Acknowledgement is made of a claim for domestic	priority under	35 U.	5.U. 3 113(t).		
Attachr	nent(s)					
15)	Notice of References Cited (PTO-892)			PTO-413) Paper No(s)		
16)	16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) Notice of Informal Patent Application (PTO-152)					
17)	Information Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 7-13 are again rejected under 35 U.S.C. 103(a) as being unpatentable over Fickel et al in view of Soehngen, further in view of Tymstra et al. As pointed out in the previous Office Action, Fickel et al discloses the claimed invention with the exception of the presence of a hydrophobic substance immobilized in the pores of the powdery polypropylene, and the step of regenerating this resultant material. Soehngen teaches impregnating a polyolefinic adsorbent with a hydrophobic liquid or solid, in order to enhance the hydrocarbon contaminant adsorption capability of this polyolefinic adsorbent material; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to immobilize a hydrophobic substance of the type disclosed by Soehngen into the pores of the powdery polypropylene of Fickel et al, in order to obtain the advantages disclosed by this secondary reference for the system of the primary reference. Such modification is deemed

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to be especially obvious in view of the disclosure by Fickel et al (see col. 4, lines 42-51) that active substances may be incorporated into the disclosed material. Furthermore, Tymstra et al discloses regenerating a solid oil adsorbent material with steam; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to regenerate the oil removing material of the modified primary reference in this manner, in order to allow this modified primary reference material to be reused.

Claim 6 is again rejected under 35 U.S.C. 103(a) as being unpatentable over Fickel et al, Soehngen and Tymstra et al as applied above, and further in view of Larson et al. As pointed out in the previous Office Action, the modified primary reference discloses the claimed invention with the exception of the use of polystyrene as the immobilized hydrophobic substance. Larson et al discloses removing hydrocarbon contaminants from an aqueous stream with a foraminous material such as polypropylene foam impregnated with polystyrene; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the polystyrene of Larson et al for the immobilized hydrophobic substance of the modified primary reference, since this polystyrene is capable of enhancing the hydrocarbon removal capability of a polypropylene adsorbent

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material in substantially the same manner as the immobilized hydrophobic substance of the modified primary reference, to produce substantially the same results.

Applicant's arguments filed January 14, 2002 have been noted and carefully considered but are not deemed to be persuasive of patentability. Applicant argues that the particles of Fickel et al remove hydrocarbon constituents by adsorption, not extraction as in Applicant's process. It is pointed out, however, that upon modification of Fickel et al by the teachings of Soehngen, in the manner proposed above, the resultant material will remove hydrocarbon constituents by a combination of adsorption and extraction for the same reason that Applicant's material exhibits such a function (see col. 14, lines 2-3 of Soehngen and claim 13 of this application).

Applicant also argues that it would not have been obvious to regenerate the material of Fickel et al, as modified by Soehngen, in the manner suggested by Tymstra et al because this modified primary reference is not using the cationic surface active bonding agent which is the essence of Tymstra et al. Again, this argument has been noted and carefully considered, but is not deemed to be persuasive of patentability. It is pointed out that Tymstra et al broadly teaches removing oil from a solid with steam (see page 3, lines 16-20); and given this teaching, one of

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motivated to regenerate the impregnated polypropylene powder of the modified primary reference (i.e. a solid containing oil) in the manner suggested by Tymstra et al. The argument that, unlike Tymstra et al, Applicant's regeneration step does not result in separation of the hydrophobic substance from the granular or powdery material is not deemed to be persuasive of patentability because the steam treatment of Tymstra et al will not remove the hydrophobic substance (e.g. soybean oil and/or castor oil) from the powdery material (i.e. polypropylene) of Fickel et al for substantially the same reason that Applicant's steam treatment does not produce such a result (see claim 13).

With respect to claim 6, Applicant apparently admits that
Larson et al discloses removing hydrocarbon contaminants from an
aqueous stream with a foraminous material such as polypropylene
foam impregnated with polystyrene (page 6, last line through page
7, line 2 of the response filed January 14, 2002), arguing
instead that this reference is silent on regenerating its oil
removing material. Once again, this argument has been noted and
carefully considered, but is not deemed to be persuasive of
patentability. It is pointed out that Larson et al is not relied
upon for a teaching of regenerating an oil removing material,

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since this teaching is clearly provided by Tymstra et al, as explained above.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (703) 308-3840. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

The fax phone numbers for this art unit are: (703) 872-9311 for "Official" faxes after Final Rejection; (703) 872-9310 for

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all other "Official" faxes; and (703) 872-9492 for "Draft" and other "Unofficial" faxes.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Ivars C. Cintins
Primary Examiner
Art Unit 1724

I. Cintins
April 7, 2002